MICRO-1500

OPERATING INSTRUCTIONS
MODE D'EMPLOI
MANUAL DE INSTRUCCIONES
BETRIEBSANLEITUNG

ENGLISH

2-18

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SANSUI

CAUTION: USE OF CONTROLS FOR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

- The following label has been affixed to the unit, listing the proper procedure for working with the laser beam.

1. THIS LABEL IS ATTACHED TO THE PLACE AS ILLUSTARATED TO INFORM THAT THE APPARATUS CONTAINS A LASER COMPONENT.

2.THIS LABEL IS ATTACHED TO THE PLACE AS ILLUSTRATED, SO THAT ANY FURTHER PROCEDURE WILL BRINGING USER INTO EXPOSURE WITH THE LASER BEAM.

3.THE WARNING LABEL INFORMING OF RADIATION IS PLACED INSIDE THE UNIT. AS SHOWN IN THE ILLUSTRATION, TO WARN AGAINST FURTHER MEASURES ON THE UNIT. THE EQUIPMENT CONTAINS A LASER COMPONENT RADIATION LASER RAYS EXCEEDING THE LIMIT OF LASER PRODUCTS OF CLASS 1.

- L'étiquette suivante, indiquant la procédure à suivre pour l'opération à partir du rayon laser, a été apposée ál'appareil.

1. CETTE ETIQUETTE APPOSEE A L'ENDROIT INDIQUE, SIGNALE QUE L'APPAREIL COMPORTE UN ELEMENT LASER.

2.CETTE ETIQUETTE A ETE APPOSEE COMME ILLUSTRESUR L'ENDROIT ALERTANT L'UTILISATEUR DE CE QUE TOUTE NOUVELLE PROCEDURE L'EXPOSERA AU RAYON LASER.

3.L'ETIQUETTE D'AVERTISSEMENT SIGNALANT LE RAYONNEMENT A ETE, COMME ILLUSTRE, PLACEE A L'INTERIEUR DE L'APPAREIL, ALERTANT AINSI L'UTILISATEUR QU'IL CONVIENT D'EVITER TOUTE NOUVELLE MESURE SUR L'APPAREIL. L'APPAREIL COMPORTE UN ELEMENT LASER IRRADIANT DES RAYONS LASER DEPASSANT LA LIMITE DE RAYONNEMENT DES PRODUITS A LASER DE CAGEGORIE.

- Se ha fijado la etiqueta siguiente en la unidad, listando el procedimiento adecuado para manejar el rayo láser

1.ESTA ETIQUETA UNIDA AL SITIO ILUSTRADO ES PARA INFORMAR QUE EL APARATO CONTIENE UN COMPONENTE LASER.

2.ESTA ETIQUETA SE HA ADJUNTADO AL SITIO COMO SE ILUSTRA PARA INFORMAR QUE CUALQUIER OTRO PROCEDIMIENTO PONDRA AL ULSUARIO EN CONTACTO CON EL RAYO LASER.

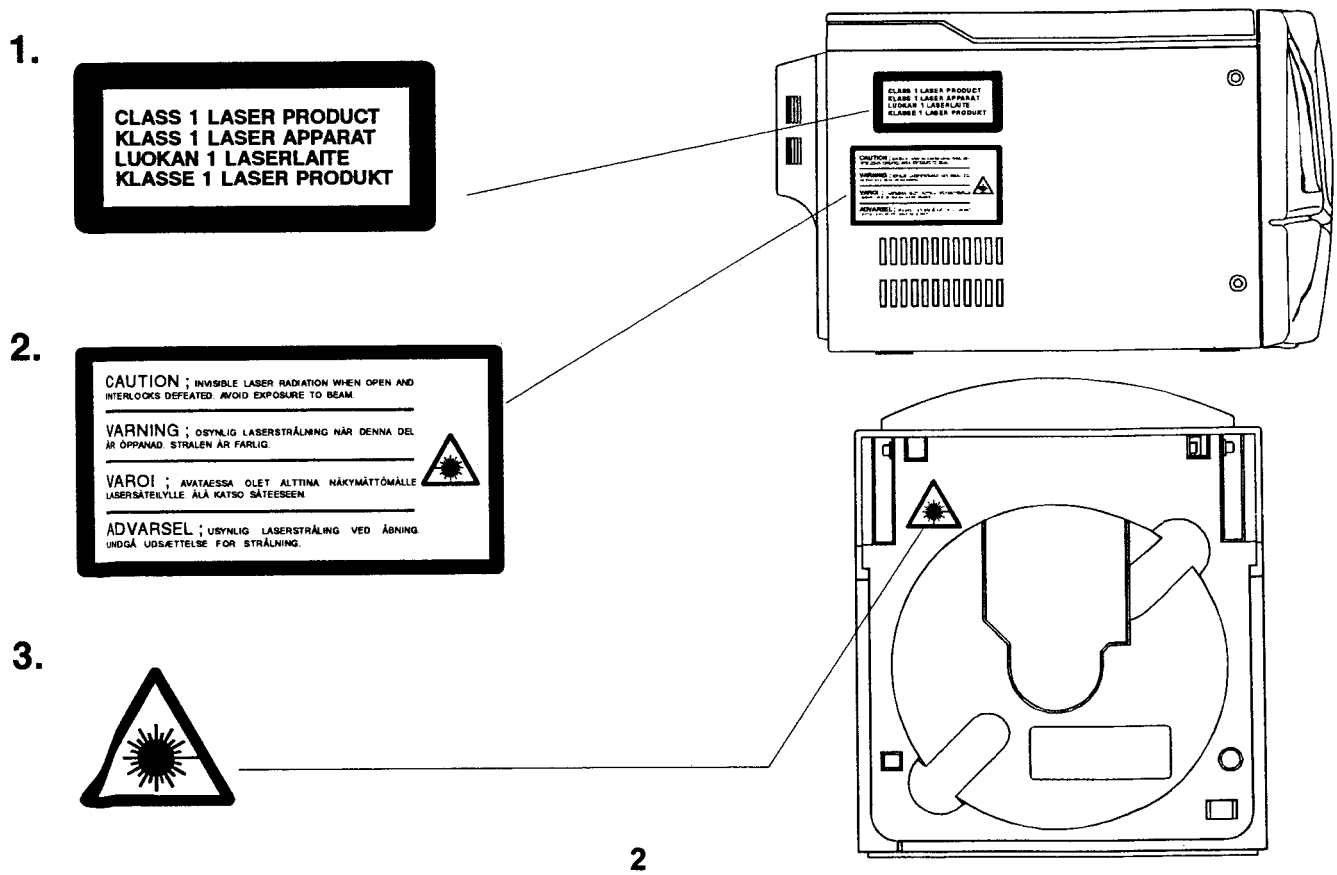
3.LA ETIQUETA DE PRECAUCIÓN INFORMANDO DE LA RADIACIÓN ESTA COLOCADA DENTRO DE LA UNIDAD. COMO SE MUESTRA EN EL DIBUJO, PARA PREVENIR CONTRA OTRAS MEDIDAS EN LA UNIDAD. EL EQUIPO CONTIENE UN COMPONENTE LASER QUE RADIA RAYOS LASER EXCEDIENDO EL LIMITE DE PRODUCTOS LASER DE CLASE 1.

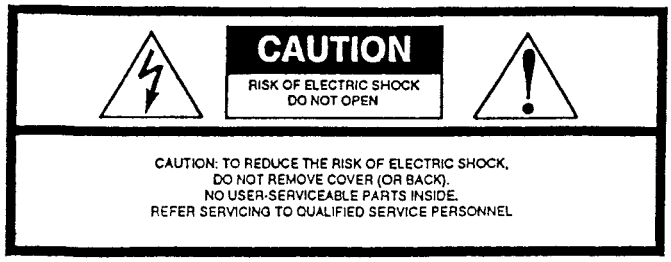
- Die abgebildeten Aufkleber befinden sich an verschiedenen Stellen der Anlag und enthalten Hinweise für den korrekten Umgang mit einem Laserstrahl.

1.DIESER AUFKLEBER, DER AN DER ABGEBILDETEN STELLE ANGEBRACHT IST, WEIST DARAUF HIN, DASS DIESE ANLAGE MIT EINER LASERKOMPONENTE AUSGESTATTET IST.

2.DIESER AUFKLEBER BEFINDET SICH AUF DER STELLE (SIEHE ABBILDUNG) UND WEIST DARAUF HIN, DASS SIE BEI EINEM WEITEREN VORGEHEN MIT EINEM LASERSTRAHL IN BERÜHRUNG KOMMEN.

3.DIESER WARNUNGSAUFKLEBER WEIST DARAUF HIN, DASS INNERHALB DER ANLAGE RÖNTGENSTRAHLEN VORHANDEN SIND (SIEHE ABBILDUNG) UND WARNT VOR WEITEREN EINGRIFFEN. BEI DER IN DIESER ANLAGE EINGEBAUTEN LASERKOMPONENTE WERDEN LASERSTRAHLEN FREI, DIE DIE GRENZWERTE EINES


1.
CLASS 1 LASER PRODUCT
KLASS 1 LASER APPARAT
LUOKAN 1 LASERLAITE
KLASSE 1 LASER PRODUKT
2.
CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VARNING ; OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.
VAROI ; AVATAESSA OLET ALTTINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLNING.
3.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

WARNING: To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

- **The Serial No. of your unit are shown on its bottom cabinet.**

SAFETY PRECAUTIONS

Prevention of Electric Shocks, Fire Hazards and Damage

1. When the POWER switch of this unit is put in the "STAND-BY" position, the unit will stop functioning, however current will continue to flow through part of the circuit. (The STAND-BY indicator lights to indicate that power is being supplied.) Power to the entire circuit can be cut off by withdrawing the power plug of the unit from the power receptacle. When you are not going to use the unit for a long period of time we recommend that you remove the power plug from the receptacle for safety's sake.

Notes:
Please press the RESET button before turn ON the unit after inserting the AC plug into the AC outlet.

2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer or authorized service centre when damage, disconnection, or contact failure is found in the power cord.
5. Do not bend the power cord sharply, or pull or twist it.
6. Do not modify the power cord in any manner.
7. Do not remove screws to disassemble the unit and do not touch anything inside the unit.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of Lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer, or authorized service centre.

FEATURES

1.Disc-size micro component system consisting of 4 units, designed for stacked or side-by side installation.

- Consists of 4 units; a cassette deck/amplifier section and a CD player/tuner section , plus a pair of speakers.

2.Powerful Super Bass System circuit for low-frequency sound reproduction and 2-way speakers for superior sound.

- The cut-off frequency is controlled by a level identification circuit to reinforce low-frequency sound.
- 2-way bass-reflex speakers with 4" woofers and 2" tweeters.

3.Surround mode

- Cycles through the four surround sound modes.

4.31-key remote control unit operates the CD, cassette deck and tuner functions.

- Remote handset controls power on/off, volume and a variety of editing functions.

5.Yellow-colored large backlit LCD (Liquid Crystal Display).

- Display includes 5-band spectrum analyzer, 15-track music calendar, function mode, etc.

6.Multi-function CD player

- Capable of high speed record and programmed play.
- RANDOM playback and INTRO-scan operation.

7.U-Turn auto-reverse full-logic mechanism with CrO2 tape compatibility.

- Auto tape select mechanism.
- Synchronize tape recording CD to tape
- High speed dubbing from CD to tape

8.Automatic source selection

- Mode selection is not necessary to start the playback of the required source.

9.2-Band digital synthesizer tuner with 15-station (10 FM and 5 MW) preset capability.

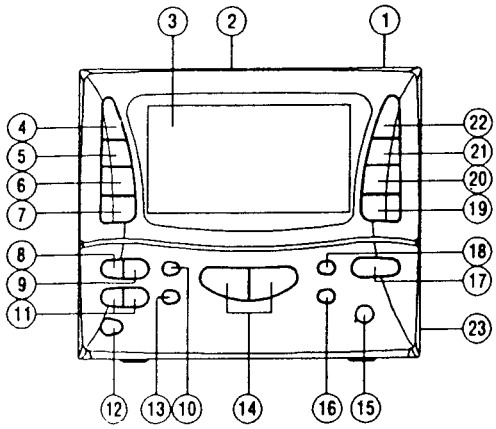
- Seek/manual tuning.

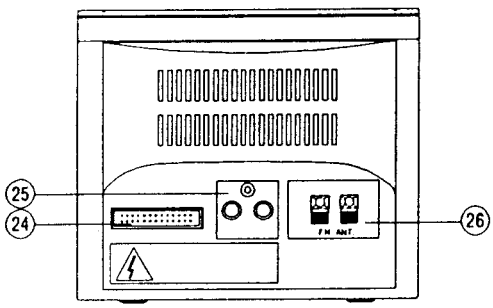
10.Timer/Clock function

- Sleep timer can be set for up to 120 minutes.

LOCATION OF CONTROLS

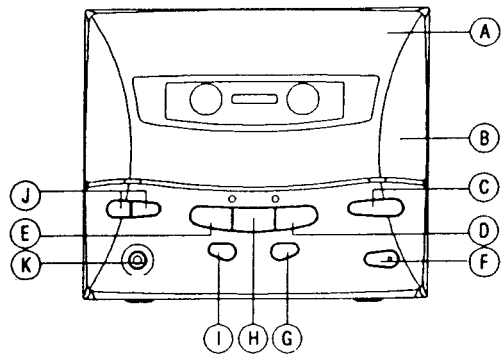
CD player/Tuner/General section

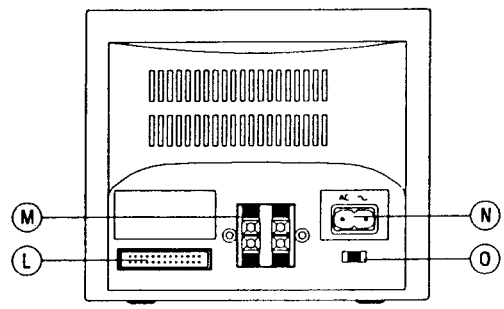




1. CD door OPEN/CLOSE AREA (⏏)
2. CD door
3. Display window
4. CD skip/search buttons (Forward mode)/ TUNING UP
5. CD skip/search buttons (Reverse mode)/ TUNING DOWN
6. TUNER BAND button
7. SURROUND mode button
8. AUX button
9. DISPLAY button
10. FM MODE button
11. HOUR/MIN. button
12. CLOCK button
13. SLEEP button
14. MASTER VOLUME button (UP/DOWN set)
15. REMOTE SENSOR
16. CD HI-SPEED DUBBING button
17. SUPER BASS button
18. CD MODE button
19. CD SYNC RECORDING button
20. CD REPEAT button
21. CD STOP button
22. CD PLAY/PAUSE button
23. RESET button
24. Connector
25. AUX input jack
26. FM antenna

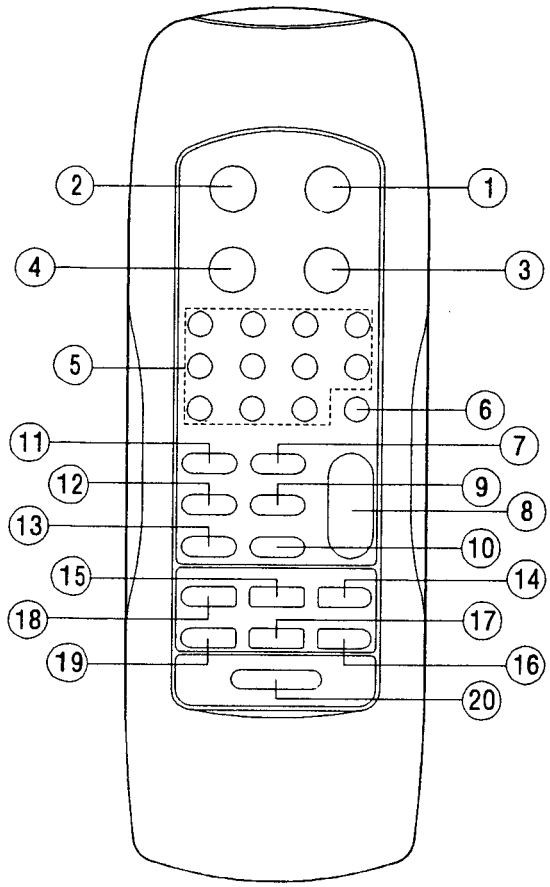
Amplifier/Deck section





A. EJECT button
B. CASSETTE DOOR
C. REVERSE mode button
D. PLAY button (FORWARD mode)
E. PLAY button (REVERSE mode)
F. POWER ON button and INDICATOR
G. RECORD button
H. STOP button
I. TAPE DIRECTION button
J. F.F./REW. buttons
k. Head phone jack
L. Connector
M. Speaker Output Jack
N. AC Input Socket
O. Beat Cut Switch

REMOTE CONTROL



1. CD/PLAY/PAUSE button
2. STOP button for CD mode
3. CD skip/search button (FORWARD mode)/TUNING UP
4. CD skip/search button (REVERSE mode)/TUNING DOWN
5. PROGRAM selector button
6. MEMORY button
7. SURROUND mode button
8. MASTER VOLUME button (UP/DOWN set)
   - ﹀ :Use to decrease the volume.
   - ﹀ :Use to increase the volume.
9. CD mode button (INTRO/RANDOM)
10. TUNER BAND button (MW/FM)
11. SUPER BASS button
12. MUTE button
13. AUX mode button
14. TAPE PLAY button (F.F. button)
15. TAPE PLAY button (REW. button)
16. TAPE F.F. button
17. TAPE REW. button
18. TAPE STOP button
19. TAPE REC button
20. POWER button

HANDLING PRECAUTIONS

Do not install this unit where it would be exposed to direct sunlight or in extremely hot temperatures (above 40°C/104°F) or humid places.

1. Avoid installing in the following places

- Where it could be subject to vibrations.
- Where it is excessively humid, such as in a bathroom.
- Where it could be magnetized by a magnet or speaker.
- Be careful not to block the deck/amp ventilation holes that allow heat dissipation.

2. Pay attention to dust

Be sure to close the CD door so the lens is not contaminated by dust. Do not touch the lens.

3. Condensation

In the following cases, condensation may occur on the lens, so that the unit may not function correctly.

- In a room where a heater has recently been switched on.
- In a place where there is smoke or high humidity.
- When the unit is moved directly from a cold to a warm room.

In these cases, set the POWER switch to ON and wait 1 or 2 hours before use.

4. Safety mechanism

This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc holder is open, the laser beam stops automatically.

5. Do not place cassette tapes, etc. near the speakers.

Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.

6. Keep this unit away from your TV

When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.

7. Cleaning the cabinet

If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzene or thinner as these could damage the surface finish.

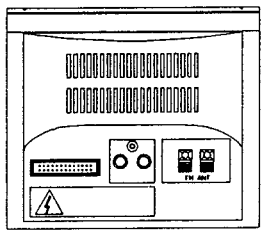
8. When listening with headphones

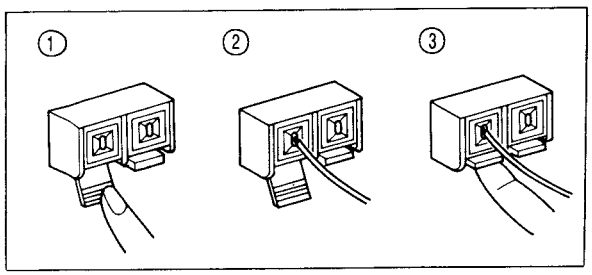
- Do not listen at high volumes as it could damage your hearing.

When the POWER button is set to STANYBY, this unit consumes a small amount of AC current. This allows the remote control to be used, for the timer to function and to back up the microprocessor memory.

CONNECTION

- Do not switch the power on until all connections are complete.
- FM antenna connections and adjustments
- Connect the 300 ohm antenna to the antenna terminals.



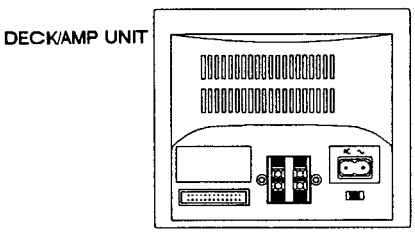


Notes:

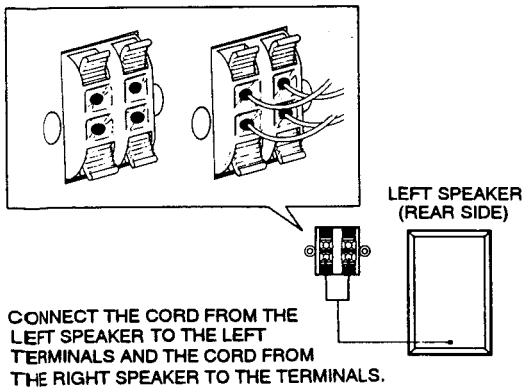
- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires experience; we recommend that you consult an audio dealer or professional installer.
- Install the antenna cord away from the power and speaker cords as these could generate noise. Do not install the loop antenna so that it touches the rear of the unit.

Speaker cord connection

- Use the speaker cords provided to connect the deck/amp and speakers.



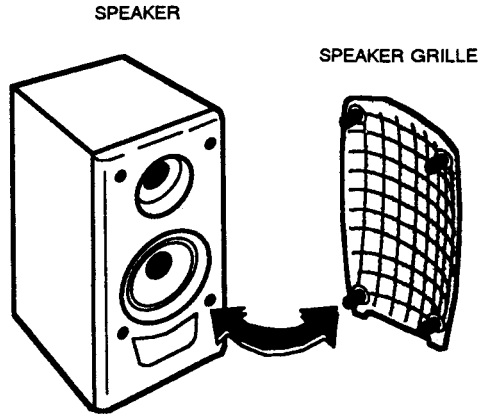
CONNECT THE CORD MARKED WITH A LINE TO THE ⊖ TERMINAL.



CONNECT THE CORD FROM THE LEFT SPEAKER TO THE LEFT TERMINALS AND THE CORD FROM THE RIGHT SPEAKER TO THE TERMINALS.

- The speaker grilles can be removed.
- When removing (the example shows the right speaker.)
  1. Insert your fingers at the top and pull towards you.
  2. Also pull the bottom towards you.

ATTACHING THE SPEAKER GRILLE



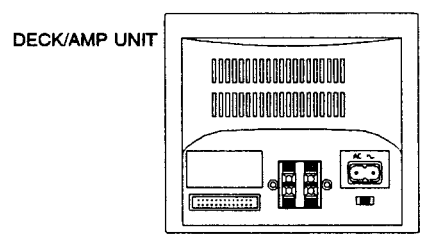
MATCH THE FITTINGS WHEN ATTACHING THE GRILLE.

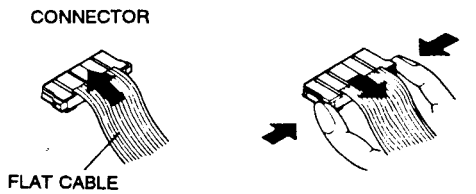
Notes:

- The polarity with which the two speakers are connected will be the same if the speaker cords marked with a white line are connected to the (-) terminals. If the speakers are connected with reverse polarity, the stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's color could be distorted. Install the speakers more than 4" (10cm) away from your TV.

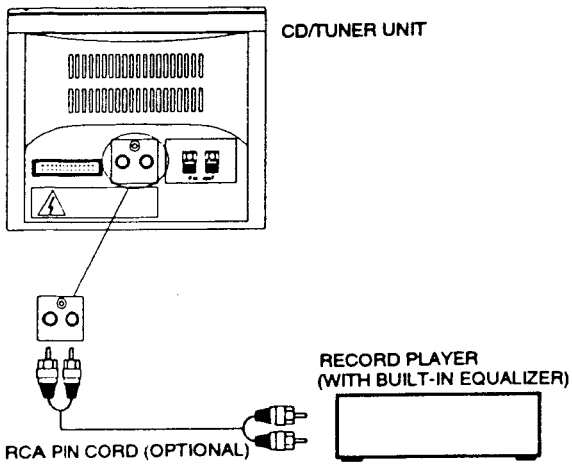
System connection

- Connect the flat cable connected to CD/tuner unit to the deck/amp unit.



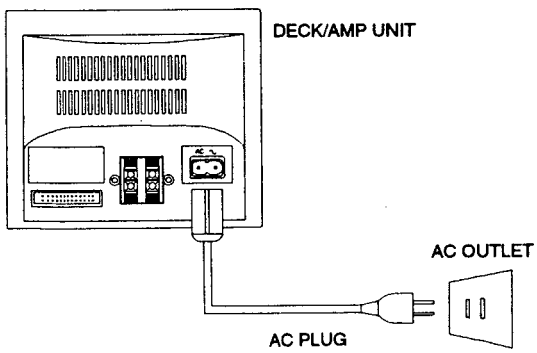


CONNECTION OF EXTERNAL AUDIO UNITS



Power supply

Plug the AC power cord into a conveniently located AC outlet having 230V 50 Hz only. Connecting this unit to other power sources way damage the unit. When the plug is inserted in an outlet the STANDBY lamp on the tape deck lights.



Notes:

- Do not block the ventilation holes of the deck/amp unit so that heat can escape. Do not install the unit in a badly ventilated place.
- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.
- Reset the unit by pressing the RESET BUTTON (23) after power failure.

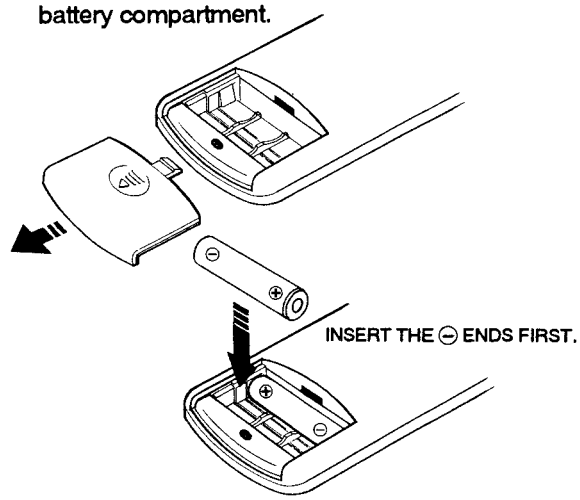
REMOTE CONTROL UNIT

Preparation before use

- Installing batteries in the remote control unit

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "AAA"/"R03" size batteries.

- Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.



3 Replace the cover.

- Battery replacement
  When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

Using the remote control unit

To use the remote unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within approximate 18 ft (6m). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, for maximum distance.
Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.

CLOCK ADJUSTMENT

Setting the current time
(Example: to set the clock to 8:15.)

①

②

③

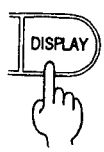
1 Connect the unit to the power outlet ("12:00" in the display).
2 Do not press the power button (at STANDBY mode).
3. Press the CLOCK button, 12:00 will blink in the display.
4 Set to 8:15 by pressing the HOUR/MIN. button.
5. 8:15 will blink in the display. After 5 sec, enter automatically.

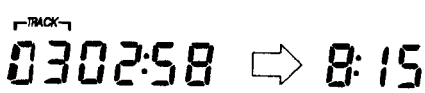
Notes:

- Before performing timer playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY mode so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, "12:00" in the display. Set the current time again.

DISPLAY BUTTON

Press the DISPLAY button, the current time will shown in the display immediately. When the button is pressed again, the function display will be shown.





Notes:

- The display of current time is available at all functional modes.

ADJUSTING THE SOUND

Preparations:

- Turn on the power by pressing the POWER button on the deck/amp unit or on the remote control.

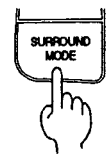
1 SUPER BASS

- When this function is turned on, "DBBS" appears in the display window and the bass level is boosted.

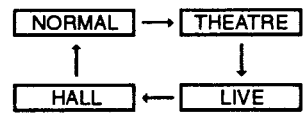
2. SURROUND MODE button

- The surround mode includes three preset soundstage patterns. Choose the one which best suits the source material.

1. SURROUND MODE



2.



① Press the SURROUND MODE button to select the mode of your choice.

② The mode and the display change each time the button is pressed.

- The surround effect will be reduced if the SUPPER BASS is pressed.

③ MASTER VOLUME BUTTON

- To adjust the volume level, press the volume up "∧" or "∨" to increase or decrease the sound level.

Notes:

To protect your speakers, be sure to turn the volume down all the way before turning on the unit.

CONCERNING COMPACT DISCS

Since dirty, damaged or warped discs may damage the unit, care should be taken of the following items:

1. Usable compact discs

Use compact discs only with the mark shown on the disc.

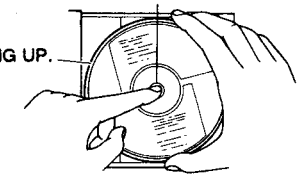
COMPACT disc DIGITAL AUDIO

2. Notes on handling discs

◆ Removing the disc from its storage case and loading it.

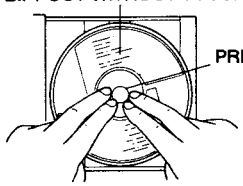
PRESS THE CLAWS AT THE CENTER OF THE DISC CASE.

INSERT WITH THE LABEL FACING UP.



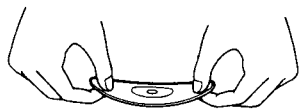
LIFT OUT WITHOUT TOUCHING THE RECORDED SURFACE.

PRESS THE DISC GENTLY TO INSERT IT.



◆ Do not touch the reflective recorded surface.
◆ Do not stick anything to or write anything on the label side.
◆ Do not bend compact discs.

INCORRECT



3. Storage

◆ After removing a disc from the unit, be sure to put it back in its case.
◆ Do not expose discs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. Cleaning discs

Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially, from the center to the edge.

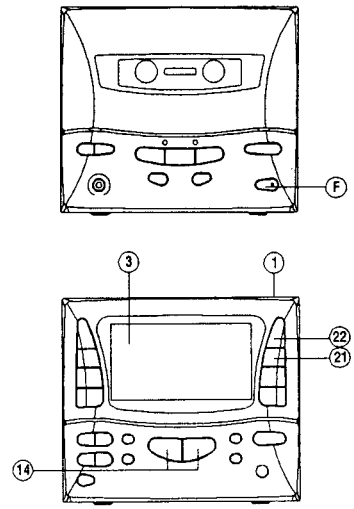
CORRECT INCORRECT

FROM THE CENTER TO THE EDGE.

◆ Never use thinner, benzine, record cleaner or antistatic spray on a compact disc.

PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.
Operate in the order shown

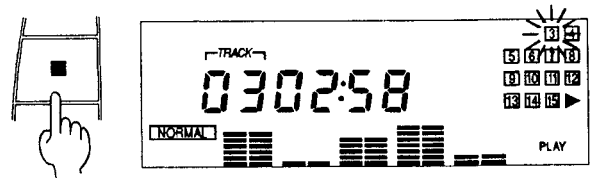


1. Press the POWER button Ⓕ to the on position.
2. Press the AREA ① to open the CD door .
3. Load a disc with the label side facing up. Press the AREA ① to close the CD door.
4. The total number of tracks (tunes) and total playing time are displayed on LCD display ③ for the compact disc is loading on CD player.
5. Press PLAY button ㉒ to start.

◆ As tunes are played, the track numbers go out one by one.

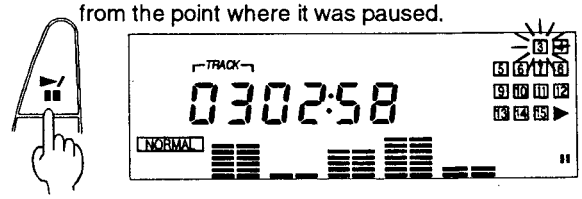
6. Adjust volume sound level to the desired level by pressing either VOLUME UP, VOLUME DOWN button ⑭ .
7. To stop play

◆ To stop in the middle of a disc
During playback, press the STOP button ㉑ .



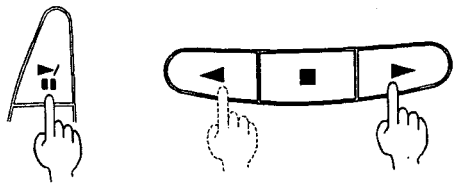
The total number of tracks (songs) and time are displayed.

◆ To stop a disc temporarily
Press the PLAY/PAUSE button ㉒ to stop play temporarily. When pressed again, play resumes from the point where it was paused.



Automatic source selection

- Simply press the play button corresponding to the required source to listen to a CD or tape.



CD PLAY TAPE PLAYBACK

Automatic source selection allows you to automatically select the source corresponding to the button pressed. (The remote control unit also has this automatic source selection function.)

Caution: To change discs, press the STOP button; check that the disc has stopped rotating completely before unloading it.

Notes:

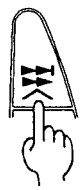
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down. In such a case, check the disc and insert again after cleaning the disc or turning it over. nod ISC or 000000
- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 47°F (5°C) to 95°F (35°C).
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations.

Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or to the previous tune; when the beginning of the required tune has been located, play starts automatically.

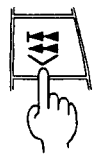
To listen to the next tune ...

Press the ▶▶| button once to skip to the beginning of the next tune.



To listen to the previous tune ...

Press the |◀◀ button to skip to the beginning of the tune being played and press again to skip to the beginning of the previous tune.

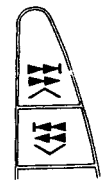


Search playback (to locate a specific position on a disc)

- A specific position can be located using fast-forward or reverse search while playing a disc.

KEEP PRESSING FOR FAST-FORWARD SEARCH

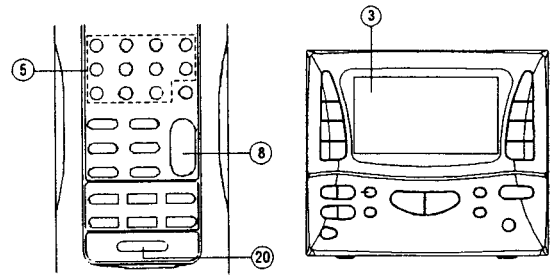
KEEP PRESSING FOR FAST-REVERSE SEARCH



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the SEARCH mode, monitor the sound and release the button when the specific position is located.

Direct access playback (using the remote control)

Pressing any of the track number buttons ⑤ will start play from the beginning and go to a designated tune. (This function cannot be used during programmed play.)



1. Press the POWER button ⑳ to the on position.
2. Then load a CD and close the CD door, the total number of tracks (tunes) are displayed on the LCD display ③.
3. Proceed to a specific song or track using the track number buttons ⑤.

- To designate tune numbers 1 to 10, press the track number button corresponding to the song (track) number.
- To designate song number 11 or higher, press the +10 button the required number of times, then a track number button. (Example: To designate the 19th song, press the + 10 button, then press track number button 9.)

Each time +10 button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

To skip to another song during playback for the required track number button ⑤ is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

4. Adjust volume sound level to the desired level by pressing the volume button ⑧.

Random playback

When the CD MODE button is pressed and displayed RANDOM during playback, the unit enters the random mode and the tunes on the disc are played back in random order.

INTRO-scan operation

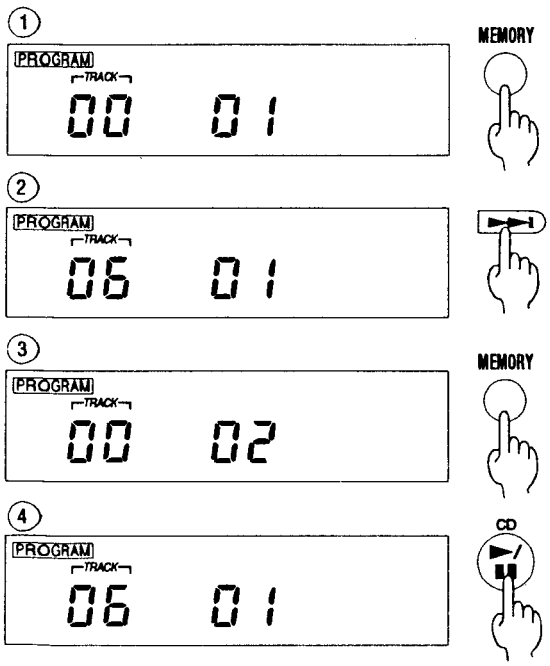
When the CD MODE button is pressed and displayed SCAN during playback, the first 10 seconds of each tune are played back sequentially.

During Random play

To locate the beginning of the selection being played
Press ⏮ button
to locate the next selection
Press ⏭ button
NOTE: You cannot locate a previous selection even if you keep pressing ⏮ button.

Programmed playback

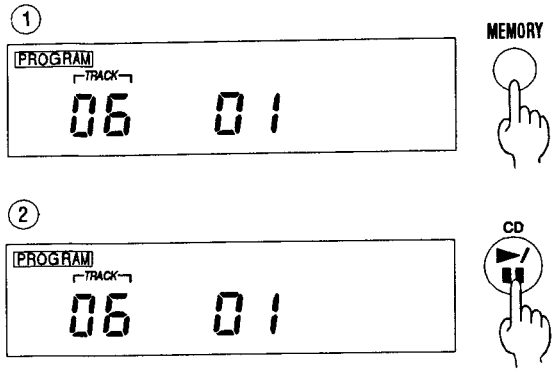
- Programmed playback can be performed for a maximum of songs 24 in any required order.



1. Press the MEMORY button to start the programming mode.
2. Press either the skip up or skip down button to designate the track number to be programmed.
   - To count down the track number, press the ⏮ button.
3. Press the MEMORY button to program the track (tune)number.
   - Repeat steps 2 and 3 to program other tracks up to 24 maximum.
4. Press the ⏯ button when programming is completed. Programmed playback starts.

To confirm the details of programmed songs ...
When the MEMORY button is pressed, the order of the programmed tracks is displayed.

To repeat the program : If the program procedure is completed, pressing the memory button to repeat the previous program.



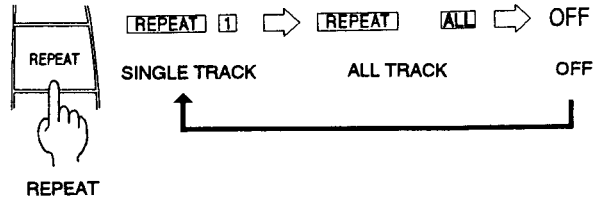
1. Press the MEMORY button to repeat the previous program step ①.
2. Press the ▶ II button to start programmed playback step ②.

To clear programmed tracks:
Set the power switch to the off position or open the CD door and then close it, the programmed tracks are cleared.

Notes:
1 If the total playing time of the programmed track exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2 Programming more than 24 tracks is not possible.
3 When a disc with 16 or more tracks is loaded, the " ▶ " indicator will appear.
4 When performing timer playback in the order of "Programmed play", notes 1 to 3 (above) are not necessary

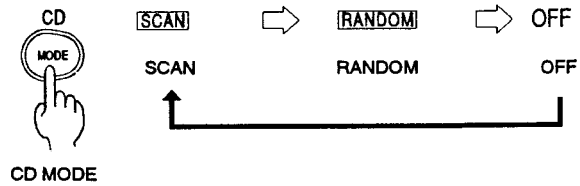
Repeat playback

Press the REPEAT button before or during playback. A single tune or all the tunes can be repeated. Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune, to all the tunes.



CD Mode operation (Both remote control and main unit)

Press the CD MODE button ⑨ SCAN or RANDOM which are shown in the display.



RANDOM playback operation
When the CD MODE button is pressed, RANDOM is shown in the display. The unit enters the random mode and the tracks on the disc are played back in random order.

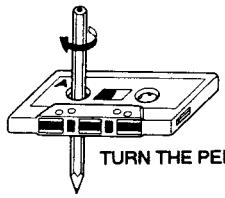
SCAN playback operation
When the SCAN is shown in the display and during playback, the first 10 seconds of each track are played sequentially only.

MUTE operation
When the MUTE button is pressed on the remote handset, music will disappear from the speakers. Release the mute function, press the MUTE button again or press VOLUME UP or VOLUME DOWN on the remote handset or main unit master volume to restore the sound.

CASSETTE TAPES

Cassette Tapes

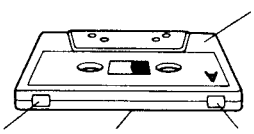
1. Loose tapes may cause trouble. With a pencil, etc., gently tighten the tape as shown (Figure 1).
2. To prevent recordings from being erased accidentally, remove the tab(s) with a screw driver, etc. (Figure 2). Reseal the slots with adhesive tape to erase and re-record after the tabs have been broken off (Figure 3).



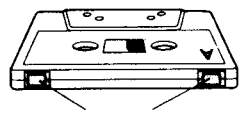
(FIGURE 1.)

TURN THE PENCIL TO TIGHTEN THE TAPE.

(FIGURE 2.)

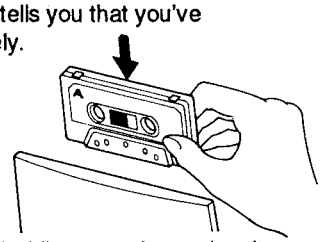


(FIGURE 3.)



Cassette loading

1. Press the EJECT AREA to open the cassette door.
2. Load a cassette tape inside the cassette door as shown.
3. Close the cassette door by pressing it gently. Listen for the click that tells you that you've closed the door securely.



Note:

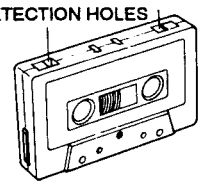
If the power is switched off while a tape is running, it may be impossible to remove the cassette tape. If this happens, switch the power on again before attempting to remove the cassette tape.

Auto tape select mechanism

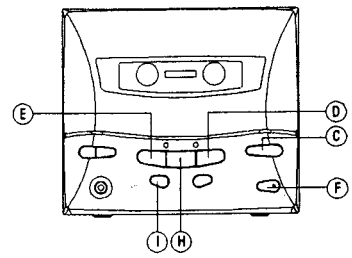
This unit has an Auto Tape Select mechanism which distinguishes between different types of tape using holes in the cassette. After the type of tape has been detected, bias and equalization are set to suitable level for the particular tape.

- Cassettes with detection holes:
  CrO2 (chrome) tape (EQ: 70 us).....Type II
- Cassettes without detection holes:
  Normal tape (EQ: 120 us).....Type I

Some earlier types of CrO2 (chrome) tapes may not have detection holes. Avoid using such tapes, since correct equalization characteristics cannot be obtained. Also do not use ferrichrome tapes as this unit's characteristics do no allow for their playback.



CASSETTE PLAYBACK



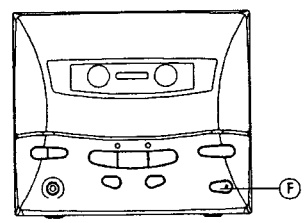
Operate in the order shown

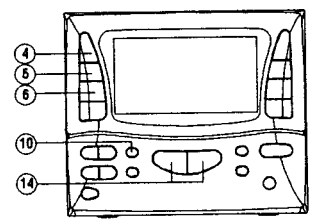
1. Press the POWER button Ⓕ to on.
2. Load a cassette tape with side A facing out.
3. Select the reverse mode by pressing the REVERSE MODE button.
4. Press play button Ⓓ or Ⓔ to start playback.
- With automatic source selection, playback can be started by pressing the play button either Ⓓ or Ⓔ.
- When the tape is played back with the reverse mode set to the ⇉ (single side play) or ⇄ (both side play) mode, the tape stops automatically at the end of the tape after playing one side or both sides.

5. To change the play direction during playback, press the direction button Ⓘ.
6. Press STOP button Ⓗ to stop play back.

RADIO RECEPTION

Operate in the order shown.





1. Press the POWER button Ⓕ to on.
2. Press the BAND selection button ⑥ ; the band and radio frequency will be shown in the display.
3. Press the BAND button to select the band (FM or MW).
4. Tune to the required station by pressing the TUNING UP button ④ or TUNING DOWN button ⑤.
5. Adjust the volume sound level by pressing VOLUME UP or DOWN button ⑭.

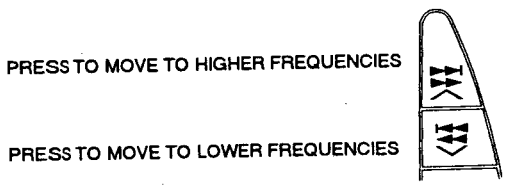
FM MODE button
STEREO: Press the FM MODE button (10) when listening to or recording an FM stereo broadcast. 'STEREO' shows on the display.

MONO: When FM stereo reception is noisy, press the FM MODE button. 'MONO' shows on the display.

◆ If the band change from MW to FM, then FM becomes MONO, pressing the FM MODE button will change to FM STEREO reception.

◆ **Seek tuning**
Press the TUNING UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies. When the broadcast is received, it stops tuning automatically and the broadcast can be heard.

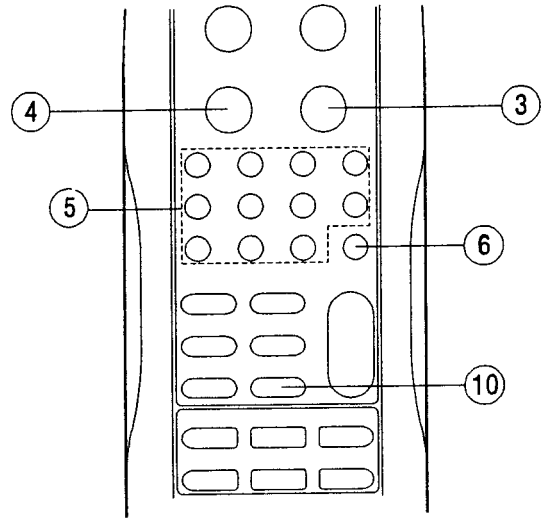
◆ **Manual tuning**
By pressing the Tuning control button, you can move up or down the frequency band.



Notes:
- ◆ When seek tuning to the required station is not possible because it is broadcasting too weak of a signal, press the UP or DOWN button momentarily to perform manual tuning.
- ◆ When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and the BAND button is pressed, the same station will be heard.

BEAT CUT switch
When beats are produced while listening to a broadcast or recording an MW radio station, activate the BEAT CUT switch so that the beats are eliminated or minimized and improved recording results.

Preset Memory (using the remote control unit)
5 stations in MW and 10 stations in FM band can be preset as follows:
◆ Example (when presetting an FM station broadcasting on 103.5 MHz to preset button "5")



1 Press the TUNER BAND button (10).
2 Select the FM band using the TUNER BAND button (10).
3 Tune to the required station by pressing the TUNING UP (3) or DOWN (4) button.
4 Press memory button (6), then preset button "5", the station has been preset.
◆ Repeat the above procedure for each of the other stations, using a different preset button each time.
◆ Repeat the above procedure for the MW band.

◆ **To change preset stations**
Perform step 4 above after tuning to the required station.

Notes:
- ◆ The previous preset station is erased when a new station is preset at the new station's number.
- ◆ When listening to an MW broadcast, noise may be heard if the remote control is used.
- ◆ All preset stations will be erased when the power cord is disconnected or a power failure occurs for more than 10 mins.. In such cases, preset all station again.

Preset tuning (using the remote control unit)
◆ Stations must be preset before this operation can be performed.
1. Press the TUNER BAND button (10).
2. Select the band (FM or MW) using the TUNER BAND button (10).
3. Press the required preset station buttons (5). (No.1 - No.5).

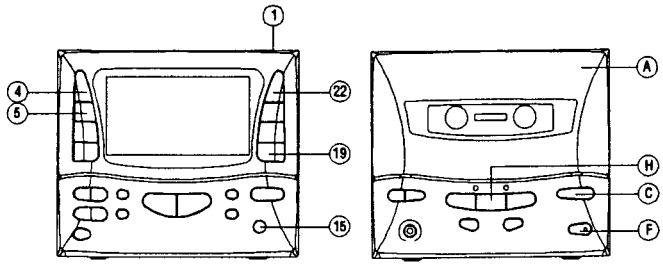
◆ The preset station number and frequency corresponding to the button preset are shown.

Note:
Preset required station 6 - 10, by press the No.+10 button and then press (No.1 - No.5) button.

RECORDING

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

SYNCHRONIZED RECORDING FROM THE CD PLAYER

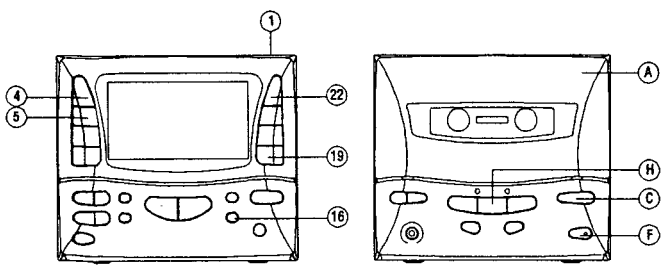


Operate in the order shown

1. Press the POWER ON/OFF button Ⓕ to turn on the unit.
2. Press the AREA ① to open the CD door.
3. Load a disc and press to close the CD door and then the TOC time will be shown in the display.
4. Press the SKIP UP ④ or DOWN ⑤ button to a desired track for recording. Insert a cassette tape in the cassette compartment with a suitable length (recording time) with side A facing out.
5. Select the required reverse mode Ⓒ (⇄).
6. Press the CD SYNCHRO REC button ⑲ ; recording will start.
   - Recording starts in the forward direction and the CD play starts automatically.
   - To stop recording, press the STOP button Ⓗ of the cassette deck.

Note: TOC time means total number of the play track and total number of the play time.

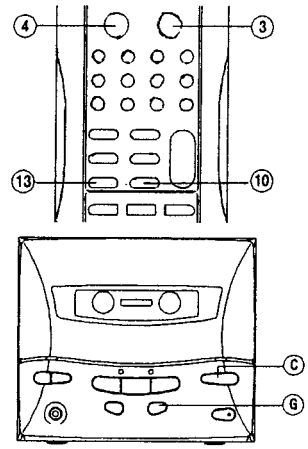
HI-SPEED DUBBING RECORDING FROM THE CD PLAYER



Operate in the order shown

1. Press the POWER ON/OFF button Ⓕ to turn on the unit.
2. Press the AREA ① to open the CD door.
3. Load a disc and press to close the CD door and than a TOC time will be shown in the display.
4. Press the SKIP UP ④ or DOWN ⑤ button to the desired track for recording. Insert a cassette tape In the cassette compartment with a suitable length (recording time) with side A facing out.
5. Select the required reverse mode Ⓒ (⇄).
6. Press the HI-SPEED DUBBING button ⑯ ; recording will start. The dubbing speed will be increased when dubbing from CD to cassette.
   - Recording starts in the forward direction and CD play starts automatically.
   - To stop recording, press the STOP button Ⓗ of the cassette deck.
   - The sound will only be heard at high frequency, set the volume lower to avoid this.

Recording from the radio or an external source connected to the AUX terminals



Operate in the order shown.

1. Load a cassette tape in to the cassette compartment with side A facing out.
2. Select the required reverse mode Ⓒ (⇄).
3. Select the source to be recorded.
   TUNER: Press the TUNER BAND button 10 and then press the TUNING UP ③ or TUNING DOWN ④ button. Tune to the requiredstation.
   AUX: Press the AUX button ⑬ .
4. Press the REC button Ⓖ .

Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.
To erase a tape without making a new recording...
Press the REC button Ⓖ set to the TAPE mode, then perform recording.

SLEEP OPERATIONS

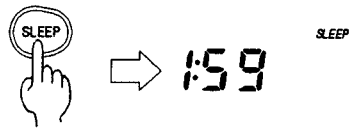
A. Use this when you want to fall asleep while listening to a CD, a tape or a radio broadcast.

1 Set to the required source.

Operation
CD play
Load a disc and press the ▶/II button to play the disc.
Tape playback
Load a cassette tape and press the ◀ or ▶ button to play back the tape.
Broadcast
Press the BAND button to set the tuner mode to MW or FM and tune to the required frequency.

2 Set to the SLEEP mode by pressing the SLEEP button (13)

SLEEP IS SHOWN IN THE DISPLAY.



- Sleep times can be set for up to 120 minutes. (maximum)
- Press HOUR or MIN button to set the required time. When you release the sleep button, the source is displayed after 5 sec.
- The sleep operation will start and the power will be switched off after the time is set.

Checking the sleep time
When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

To cancel the sleep operation
Press the POWER button to switch the power off or press the SLEEP button again.

MAINTENANCE

Cleaning is important!
When the tape is running, magnetic powder and dust naturally accumulate on the tape deck heads, capstan and pinch roller. When they become too dirty...

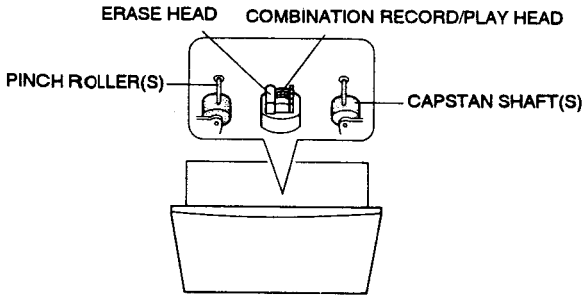
- sound quality deteriorates
- the output sound level drops
- the previous sound is not completely erased
- recording is not performed satisfactory

Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording or playback is possible.

Cleaning the heads, capstan and pinch roller.

- Open the cassette holder.
- Clean the heads, pinch roller and capstan.

For effective cleaning, use a cleaning kit available from an audio store.
After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.

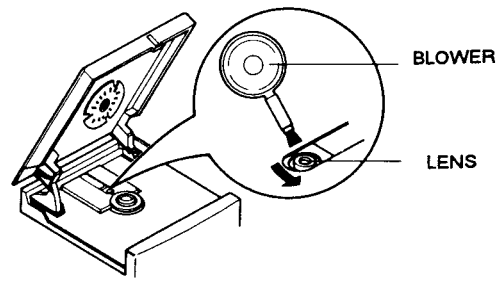


Cautions:

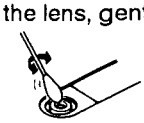
- Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tone will deteriorate. Demagnetize the head every 20-30 hours of use with a head eraser (available from an audio stores). (When demagnetizing the head, the POWER button should be set to STANDBY).
- Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

Cleaning the lens
If the lens in the CD pickup is dirty, dropout, etc. could degrade sound.
Open the disc holder and clean the lens as shown.

- Use a blower (available from camera stores) to blow dust off the lens.

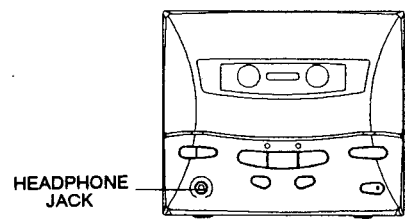


- If there are fingerprints, etc. on the lens, gently wipe clean with a cotton swab.



ANNEX

Headphone socket



This system is equipped with a stereo headphone jack for connecting headphones with a 3.5 mm plug. The loudspeakers are automatically disconnected when headphones are connected into the headphone socket.

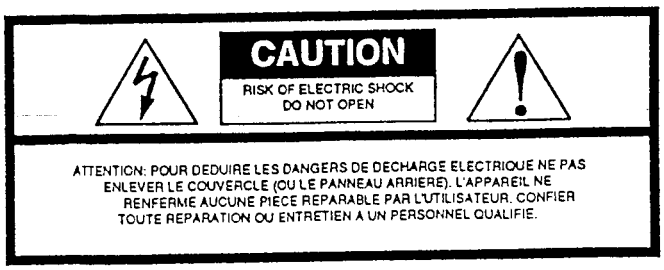
TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
RADIO		
Noise or sound distorted on MW or FM broadcasts.	Station not tuned properly for MW or FM.	Retune the MW or FM station.
	Internal MW antenna needs adjusting.	Rotate the unit until best MW reception is obtained.
	FM antenna needs adjustment.	Extend or reorient the FM antenna. Check antenna connections.
	The unit is tuned to a weak FM stereo signal.	Set the FM MODE button to the FM MONO (in) position.
FM STEREO does not light.	FM MODE button is not set to the STEREO position.	Set the FM MODE button to the STEREO position.
	Station is too weak to be received in stereo.	Tune to a stronger stereo station.
CASSETTE DECK		
Sound is distorted	Dirty tape head.	Clean the tape head.
Unit will not record.	Erase prevention tab on the cassette is removed.	Cover the holes with adhesive tape.
Erratic or slow speed.	Tape old or worn.	Replace the tape.
CD PLAYER		
CD player will not operate.	Function selector switch is not set to the CD position.	Set functionswitch to the CD position.
	CD not installed or installed up side down.	Insert CD with label side face up.
CD skips while playing.	Disc is dirty or scratched.	Wipe disc with a soft cloth or try another disc.
REMOTE CONTROL		
Remote control does not work.	Battery not installed in the remote hand set.	Insert battery into remote hand set.
	Remote sensor exposed to bright light.	Move away bright light source.
GENERAL		
No sound.	Headphones are connected to the PHONES (headphone) jack.	Remove the headphone plug from the jack.
	Speaker plugs not connected to speaker jacks.	Connect the speaker plugs to the speaker jacks.
	FUNCTION selector switch is not in the correct position.	Slide FUNCTION selector switch to the correct position.
	Volume is set to minimum.	Increase Volume.
The unit does not operate while the power is still on.	Incorrect operation	Pull out the AC cord and wait 10 seconds then insert the plug into AC outlet.
The compact disc contiunes to rotates after the CD door has been opened.		Reset the unit by pressing the reset button.

Note:
Before making a important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

SPECIFICATIONS

Power Supply	AC 230 VOLTS 50 Hz
Power Output	RMS(WATTS) 10W (5W+5W)
Dimension of Unit	150(W) X 208(D) X 261(H) MM
Dimension of Speaker	130(W) X 198(D) X 261(H) MM
Radio Section	Tuning : PLL with 15 Presets (FM 10, MW 5), LCD Display Freq. Range : AM 531 - 1602 KHz (9 KHz per step) FM 87.5 - 108 MHz (0.05 MHz per step) Memory Back Up : By AC Line. 30 Minutes by Condenser when a power failure occurs. MW Sen 20 dB S/N 700 UV/M FM Sen 30 dB S/N 20 UV
Antenna	MW : Built-in Ferrite Bar FM : 300 ohm Ext. Ant. Terminal
Time	24 Hour
Sleep Timer	120 Minute (Max.)
Tape Section	Function : Rec/Play(Forward)/Play(Rev)/Stop/ FF/Rew/Direction/Reverse Mode Built-in ALC AC Bias/AC Erase Soft Eject Door
CD Section	Top Load CD Player 5" & 3" Compatible Stop, Play/Pause, Skip + / - (Search + / -) 16 Bit 2 Time Oversampling Digital Filter
2 Way Speaker System	Woofer : 4", 4 Ohm Tweeter : 2 " 8 mm thickness of all walls wooden cabinet. Detachable plastic front panel. Colour Speaker wire for polarity. AWG24, 6FT with stripped and tined ends. Cloth grill with plastic frame.
Remote Control	31 Keys, Battery size is AAA X 2


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
ATTENTION: POUR DEDUIRE LES DANGERS DE DECHARGE ELECTRIQUE NE PAS ENLEVER LE COUVERCLE (OU LE PANNEAU ARRIERE). L'APPAREIL NE RENFERME AUCUNE PIECE REPARABLE PAR L'UTILISATEUR. CONFIER TOUTE REPARATION OU ENTRETIEN A UN PERSONNEL QUALIFIE.

Le point d'exclamation dans un triangle équilatéral a pour but de signaler à l'utilisateur la présence d'explications importantes, relatives à l'exploitation et à l'entretien, dans le texte accompagnant l'appareil.

Le symbole à flèche brisée dans un triangle équilatéral a pour but d'attirer l'attention de l'utilisateur sur la présence, à l'intérieur du coffret, d'une "tension dangereuse" non isolée qui est d'une importance suffisante pour constituer un risque de décharge électrique pour les êtres humains.

ATTENTION : Pour éviter les dangers d'électrocution ou d'incendie, ne pas exposer cet appareil à la pluie ou à l'humidité.

Cet appareil est conforme a la directive 87/308 de la CEE, relative a la suppression des interferences.

PRECAUTIONS D'INSTALLATION

Pour éviter les électrocutions, incendies, et blessures

1. Quand le bouton MARCHE est mis en position "STAND BY" (veille), la chaine ne fonctionne plus mais est toujours alimentée électriquement. Pour couper complètement le courant, retirer la prise électrique. Il est recommandé de débrancher la chaine du secteur en cas d'inutilisation prolongée.

Remarque:
Après avoir introduit la fiche d'alimentation dans la prise secteur, veuillez appuyer sur la touche de ré-initialisation RESET avant de mettre l'appareil sous tension.

2. Ne pas manipuler le câble électrique avec des mains mouillées.

3. Pour retirer la prise électrique, ne pas tirer sur le câble mais sur la prise.

4. Consulter votre revendeur ou service technique le plus proche en cas de détérioration de câble électrique.

5. Ne pas couper, tirer ni tordre le câble électrique.

6. En aucun cas ne modifier le câble électrique.

7. Ne pas ouvrir l'appareil et ne rien toucher à l'intérieur de celui-ci.

8. N'introduire aucun objet métallique à l'intérieur de l'appareil.

9. Retirer la prise de courant en cas de foudre.

10. Si l'appareil prend l'eau, retirer la prise de courant et consulter votre revendeur ou station technique agréée.

SPECIFICATIONS

1. Mini-chaine 4 éléments à lecteur laser : un ampli / cassette, un CD / tuner et deux enceintes.

2. Circuit Super Bass pour une meilleure reproduction des graves et enceintes 2 voies.
◆ Les fréquences de coupure sont contrôlées par circuit d'identification pour renforcer les sons graves.
◆ Enceintes 2 voies : Boomer 10 cm - Tweeter 5 cm

3. Mode Surround
◆ 4 modes surround mémorisés.

4. La télécommande 31 fonctions pilote l'ensemble de la chaine :
Contrôle volume Marche/Arrêt et diverses fonctions "Edition"

5. Large afficheur jaune à cristaux liquide.
◆ Analyseur de spectre à 5 bandes, calendrier musical à 15 plages, fonction Imode, etc.

6. CD Multi-fonction :
◆ Possibilité de copie cassette à haute vitesse et programmation.
◆ Lecture aléatoire, lecture des introductions.

7. Platine cassette auto-reverse à clavier logique. Sélection CRO2.
◆ Sélecteur automatique de bandes
◆ Enregistrement synchronisé avec le CD.
◆ Copie rapide du CD.

8. Sélecteur automatique de source.
◆ Inutile d'utiliser le silecteur de source.

9. Tuner digital à 15 mémoires (5 MW / 10 FM)
◆ Recherche automatique / Manuelle

10. Horloge
◆ Fonction sommeil ajustable jusqu'à 120 minutes.